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In the specification:

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ABSTRACT OF THE DISCLOSURE

a1 A distance measuring system, which comprises a control arithmetic unit 1, a light emitting unit 2 for emitting a measuring light beam and a photodetection unit 3 for receiving a reflection light beam from an object to be measured, the system being used for measuring a distance by receiving the reflection light beam from the object to be measured, wherein the control arithmetic unit compares a signal based on the photodetection amount of the reflection light from the object to be measured as well as a result of the distance measurement with reference data prestored in the control arithmetic unit relating to the reflection of the object to be measured, and judges whether the object to be measured is a prism or a natural object based on a result of the comparison.

In the claims:

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Sub
C1 1. (Amended) A distance measuring system for measuring distance by receiving a reflection light beam from an object to be measured, comprising a control arithmetic unit, a light emitting unit for emitting a measuring light beam, and a photodetection unit for receiving said reflection light beam from said object to be measured and for issuing a signal based on a photodetection amount of said reflection light beam, and a display unit for displaying the result of a calculation of said arithmetic unit, wherein there is provided prestored data that is obtained by associating the measured distance and the photodetection amount of said reflection light beam according to said object to be measured, and wherein said control arithmetic unit compares the photodetection amount of said reflection light beam from said object to be measured, a result of distance measurement based on said reflection light